



		10	20	30	40	50	60
SEQ ID NO:2	HUMAN	MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYYPEPGAQDADERRGGGSLGSPYPG					
SEQ ID NO:4	MOUSE	MGIVEPGCGDMLTGTEPMP-SDEGRGPGADQQHRFFFYYPEPGAQDPTDRRAGSSSLGTPYSG					
		10	20	30	40	50	

CONS MGIVEPGCGDMLTGTEPMP SDEGR PGAD QHR FYYPEPGAQD RR G SLG PY G

		70	80	90	100	110	120
SEQ ID NO:2	HUMAN	GALVPAPPSRFLGAYAYPPRQAAGFPGAGESFPPPAEAGYQPGEGYAAPDPRAGLYPG					
SEQ ID NO:4	MOUSE	GALVPAAPGRFLGSAFYPPRAQVAGFPGPGEFFPPPAEAGYPPVDGYAPDPRAGLYPG					
		60	70	80	90	100	110

CONS GALVPA P RFLG AYPPR Q AGFP G GE FPPPA AEGY P GY APDPRAGLYPG

		130	140	150	160	170	180
SEQ ID NO:2	HUMAN	PREDYALPAGLEVSGKLRVALNNHLLWSKFNQHQTEMIITKQGRRMFPFLSFTVAGLEPT					
SEQ ID NO:4	MOUSE	PREDYALPAGLEVSGKLRVALSNHLLWSKFNQHQTEMIITKQGRRMFPFLSFTVAGLEPT					
		120	130	140	150	160	170

CONS PREDYALPAGLEVSGKLRVAL NHLLWSKFNQHQTEMIITKQGRRMFPFLSFTVAGLEPT

		190	200	210	220	230	240
SEQ ID NO:2	HUMAN	SHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMGPNRLYVHPDSPNTGAHWMRQEV SFG					
SEQ ID NO:4	MOUSE	SHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMGPNRLYVHPDSPNTGAHWMRQEV SFG					
		180	190	200	210	220	230

CONS SHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMGPNRLYVHPDSPNTGAHWMRQEV SFG

		250	260	270	280	290	300
SEQ ID NO:2	HUMAN	KLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAACNASNTHFTFQETQFI					
SEQ ID NO:4	MOUSE	KLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAACSASNTHVFTFQETQFI					
		240	250	260	270	280	290

CONS KLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAAC ASNTH FTFQETQFI

Fig. 1A

```

          310      320      330      340      350      360
SEQ ID NO:2 HUMAN AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSIPSPPGPNCQFLGGDHYSPLLP
SEQ ID NO:4 MOUSE AVTAYQNAEITQLKIDNNPFAKGFRENFESMYASVDTSVPSPPGPNCQLLGDPFSPLLS
          300      310      320      330      340      350

```

CONS AVTAYQNAEITQLKIDNNPFAKGFRENFESMY SVDTS PSPPGPNCQ LGGD FSPLL

```

          370      380      390      400      410      420
SEQ ID NO:2 HUMAN NQYPVPSRFYPDLPGQAKDVVPQAYWLGAPRDHSYEAEFRAVSMKPAFLPSAPGPTMSYY
SEQ ID NO:4 MOUSE NQYPVPSRFYPDLPGQPKDMISQPYWLGTPREHSYEAEFRAVSMKPTLLPSAPGPTVPYY
          360      370      380      390      400      410

```

CONS NQYPVPSRFYPDLPGQ KD Q YWLG PR HSYEAEFRAVSMKP LPSAPGPT YY

```

          430      440      450      460      470      480
SEQ ID NO:2 HUMAN RGQEV LAPGAGWPVAPQYPPKMGPASWFRPMTLPMEPGGSEGRGPEDQGPPLVWTEI
SEQ ID NO:4 MOUSE RGQDVLAPGAGWPVAPQYPPKMSPAGWFRPMTLPM DPGLGSSEEQG----SSPSLWPEV
          420      430      440      450      460      470

```

CONS RGQ VLAPGAGWPVAPQYPPKM PA WFRPMTLPM PG G SE G P W E

```

          490      500      510      520      530
SEQ ID NO:2 HUMAN APIRPESSDSGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEAEGQFYNTFPN
SEQ ID NO:4 MOUSE TSLQPEPSDSGLGEGDTKRRRISYPYPSSGDSSSPAGAPSPFDKETEGQFYNYFPN
          480      490      500      510      520      530

```

CONS PE SDSGLGEGD KRRR SPYPSSGDSSSPAGAPSPFDKE EGQFYNYFPN

Fig. 1B

SEQ ID NO:	1	2	3	4	5	6		
SEQ ID NO:1	HUMAN	ATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGG	10	20	30	40	50	60
SEQ ID NO:3	MOUSE	ATGGGCATCGTGGAGCCGGGCTGCGGAGACATGCTGACCGGCACCGAGCCGATGCC---G	10	20	30	40	50	
SEQ ID NO:1	HUMAN	AGCGACGAGGGCCGGGCGCCTGGCGCCGACCCGCAGCACCGCTACTTCTACCCGGAGCCG	70	80	90	100	110	120
SEQ ID NO:3	MOUSE	AGTGACGAGGGCCGGGGCCCGGAGCGGACCAACAGCATCGTTTCTTCTATCCCGAGCCG	60	70	80	90	100	110
SEQ ID NO:1	HUMAN	GGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGGGTCTCCCTACCCGGGG	130	140	150	160	170	180
SEQ ID NO:3	MOUSE	GGCGCACAGGACCCGACCGATCGCCGCGCAGGTAGCAGCCTGGGGACGCCCTACTCTGGG	120	130	140	150	160	170
SEQ ID NO:1	HUMAN	GGCGCCTTGGTGCCCGCCCCGCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCCGGA	190	200	210	220	230	240
SEQ ID NO:3	MOUSE	GCGCCCTGGTGCCCTGCCGCGCCGGGTCGCTTCCTTGGATCCTTCGCCTACCCGCCCCGG	180	190	200	210	220	230
SEQ ID NO:1	HUMAN	CCCCAGGCGCGCGGCTTCCCCGGCGCGGGCGAGTCCTTCCCGCCCGCCGCGGACGCCGAG	250	260	270	280	290	300
SEQ ID NO:3	MOUSE	GCTCAGGTGGCTGGCTTTCCCGGGCCTGGCGAGTTCTTCCCGCCCGCCGCGGGTGCGGAG	240	250	260	270	280	290
SEQ ID NO:1	HUMAN	GGCTACCAGCCGGGCGAGGGCTACGCCGCCCGGACCCGCGCGCCGGGCTCTACCCGGGG	310	320	330	340	350	360
SEQ ID NO:3	MOUSE	GGCTACCCGCCCGTGGATGGCTACCCTGCCCTGACCCGCGCGCGGGGCTCTACCCAGGG	300	310	320	330	340	350
SEQ ID NO:1	HUMAN	CCGCGTGAGGACTACGCGCTACCCGCGGGACTGGAGGTGTCGGGGAAACTGAGGGTCGCG	370	380	390	400	410	420
SEQ ID NO:3	MOUSE	CCGCGCGAGGACTACGCATTGCCCGCGGGTGGAGGTGTCGGGAAGCTGAGAGTCGCG	360	370	380	390	400	410

Fig. 1C

SEQ ID NO:1	HUMAN	CTCAACAACCACCTGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACC
		430 440 450 460 470 480
SEQ ID NO:3	MOUSE	CTCAGCAACCACCTGTTGTGGTCCAAGTTCAACCAGCACCAGACAGAGATGATCACT
		420 430 440 450 460 470
SEQ ID NO:1	HUMAN	AAGCAGGGACGGCGGATGTTCCCATTCCTGTCATTTACTGTGGCCGGGCTGGAGCCCACC
		490 500 510 520 530 540
SEQ ID NO:3	MOUSE	AAGCAAGGACGGCGAATGTTCCCATTCCTGTCCTTACCCTGGCCGGGCTGGAGCCCACA
		480 490 500 510 520 530
SEQ ID NO:1	HUMAN	AGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAG
		550 560 570 580 590 600
SEQ ID NO:3	MOUSE	AGCCATTACAGGATGTTTGTGGATGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAG
		540 550 560 570 580 590
SEQ ID NO:1	HUMAN	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGTAC
		610 620 630 640 650 660
SEQ ID NO:3	MOUSE	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCAGAAGGCAGCATGCCAGGGAACCGCTTATAT
		600 610 620 630 640 650
SEQ ID NO:1	HUMAN	GTCCACCCGGACTCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATTTGGG
		670 680 690 700 710 720
SEQ ID NO:3	MOUSE	GTCCACCCAGACTCCCCAACACCGGAGCCCACTGGATGCGCCAGGAAGTTTCATTTGGG
		660 670 680 690 700 710
SEQ ID NO:1	HUMAN	AAACTAAAGCTCACAAACAACAAGGGGGCGTCCAACAATGTGACCCAGATGATTGTGCTC
		730 740 750 760 770 780
SEQ ID NO:3	MOUSE	AAGCTAAAGCTCACCAACAACAAGGGGGCTTCCAACAATGTGACCCAGATGATCGTCCTG
		720 730 740 750 760 770
SEQ ID NO:1	HUMAN	CAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCCA
		790 800 810 820 830 840
SEQ ID NO:3	MOUSE	CAGTCTCTCCACAAGTACCAGCCCCGGCTGCACATCGTGGAGGTGAATGATGGAGAGCCA
		780 790 800 810 820 830

Fig. 1D

SEQ ID NO:	Species	840	850	860	870	880	890	900
SEQ ID NO:1	HUMAN	GAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTCATT						
SEQ ID NO:3	MOUSE	GAGGCTGCCTGCAGTGCTTCTAACACACACGTCTTTACTTTCCAAGAGACCCAGTTCATT						
		840	850	860	870	880	890	
SEQ ID NO:1	HUMAN	GCCGTGACTGCCTACCAGAATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTT						
SEQ ID NO:3	MOUSE	GCAGTGACTGCCTACCAGAACGCAGAGATCACTCAGCTGAAAATCGACAACAACCCCTTT						
		900	910	920	930	940	950	
SEQ ID NO:1	HUMAN	GCCAAAGGATTCCGGGAGAACTTTGAGTCCATGTACACATCTGTTGACACCAGCATCCCC						
SEQ ID NO:3	MOUSE	GCCAAAGGATTCCGGGAGAACTTTGAGTCCATGTACGCATCTGTTGATACGAGTGTCACC						
		960	970	980	990	1000	1010	
SEQ ID NO:1	HUMAN	TCCCCGCCTGGACCCAACCTGTCAATTCCTTGGGGGAGATCACTACTCTCCTCTCCTACCC						
SEQ ID NO:3	MOUSE	TCGCCACCTGGACCCAACCTGTCAACTGCTTGGGGGAGACCCCTTCTCACCTCTTCTATCC						
		1020	1030	1040	1050	1060	1070	
SEQ ID NO:1	HUMAN	AACCAGTATCCTGTTCCCAGCCGCTTCTACCCCGACCTTCCTGGCCAGGCGAAGGATGTG						
SEQ ID NO:3	MOUSE	AACCAGTATCCTGTTCCCAGCCGTTTCTACCCCGACCTTCAGGCCAGCCCAAGGATATG						
		1080	1090	1100	1110	1120	1130	
SEQ ID NO:1	HUMAN	GTTCCCCAGGCTTACTGGCTGGGGGCCCCCGGGACCACAGCTATGAGGCTGAGTTTCCGA						
SEQ ID NO:3	MOUSE	ATCTCACAGCCTTACTGGCTGGGGACACCTCGGGAACACAGTTATGAAGCGGAGTTCCGA						
		1140	1150	1160	1170	1180	1190	
SEQ ID NO:1	HUMAN	GCAGTCAGCATGAAGCCTGCATTCTTGCCCTCTGCCCCTGGGCCACCATGTCCTACTAC						
SEQ ID NO:3	MOUSE	GCTGTGAGCATGAAGCCACACTCCTACCCTCTGCCCCGGGGCCCACTGTGCCCTACTAC						
		1200	1210	1220	1230	1240	1250	

Fig. 1E

		1270	1280	1290	1300	1310	1320
SEQ ID NO:1	HUMAN	CGAGGCCAGGAGGTCCTGGCACCTGGAGCTGGCTGGCCACCCAGTACCCCTCCC					
		:: ::::: :: ::::: :: ::::: :: ::::: :: ::::: :: ::::: :: ::::: ::					
SEQ ID NO:3	MOUSE	CGGGGCCAAGACGTCCTGGCGCCTGGAGCTGGTTGGCCCGTGGCCCCTCAATACCCGCCC					
		1260	1270	1280	1290	1300	1310
		1330	1340	1350	1360	1370	1380
SEQ ID NO:1	HUMAN	AAGATGGGCCCCGCCAGCTGGTTCCGCCCTATGCGGACTCTGCCCATGGAACCCGGCCCT					
		::::: ::::: :: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::					
SEQ ID NO:3	MOUSE	AAGATGAGCCCAGCTGGCTGGTTCCGGCCCATGCGAACTCTGCCCATGGACCCGGGCGCTG					
		1320	1330	1340	1350	1360	1370
		1390	1400	1410	1420	1430	1440
SEQ ID NO:1	HUMAN	GGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCCTTGGTGTGGACTGAGATT					
		::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::					
SEQ ID NO:3	MOUSE	GGATCCTCAGAGGAACAGGGCTCCT-----CCCCCTCGCTGTGGCCTGAGGTC					
		1380	1390	1400	1410	1420	
		1450	1460	1470	1480	1490	1500
SEQ ID NO:1	HUMAN	GCCCCCATCCGGCCGGAATCCAGTGATTGAGGACTGGGCGAAGGAGACTCTAAGAGGAGG					
		:: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::					
SEQ ID NO:3	MOUSE	ACCTCCCTCCAGCCGGAGCCCAGCGACTCAGGACTAGGCGAAGGAGACACTAAGAGGAGG					
		1430	1440	1450	1460	1470	1480
		1510	1520	1530	1540	1550	1560
SEQ ID NO:1	HUMAN	CGCGTGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCCCTGCTGGGGCCCCCTTCTCCT					
		: : ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::					
SEQ ID NO:3	MOUSE	AGGATATCCCCCTATCCTTCCAGTGCGACAGCTCCTCTCCCGCTGGGGCCCCCTTCTCCT					
		1490	1500	1510	1520	1530	1540
		1570	1580	1590	1600		
SEQ ID NO:1	HUMAN	TTTGATAAGGAAGCTGAAGGACAGTTTATAACTATTTTCCCAACTGA					
		::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::					
SEQ ID NO:3	MOUSE	TTTGATAAGGAAACCGAAGGCCAGTTTATAATTATTTTCCCAACTGA					
		1550	1560	1570	1580	1590	

Fig. 1F

		10	20	30	40	50	60
<u>SEQ ID NO:2</u>	HUMAN	MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYYPEPGAQDADERRGGGSLGSPYPG					
		:	:	:	:	:	:
<u>SEQ ID NO:4</u>	MOUSE	MGIVEPGCGDMLTGTEPMP-SDEGRGPGADQQHRFFYYPEPGAQDPTDRRAGSSLGTPYSG					
		10	20	30	40	50	
	CONS	MGIVEPGCGDMLTGTEPMP SDEGR PGAD QHR FYYPEGAQD RR G SLG PY G					

		70	80	90	100	110	120
<u>SEQ ID NO:2</u>	HUMAN	GALVPAPPSRFLGAYAYPPRPQAAGFPGAGESFPPPADAEGYQPGEGYAAPDPRAGLYPG					
		::::::	::::::::::::	::::::::	:: ::::	::: :	:: ::::::::::
<u>SEQ ID NO:4</u>	MOUSE	GALVPAAPGRFLGSAFYPPRAQVAGFPGGFEFFPPPAAGEGYPPVDGYAPDPRAGLYPG					
		60	70	80	90	100	110
	CONS	GALVPA P RFLG AYPPR Q AGFPG GE FPPPA AEGY P GY APDPRAGLYPG					

		130	140	150	160	170	180
<u>SEQ ID NO:2</u>	HUMAN	PREDYALPAGLEVSGKLRVALNNHLLWSKFNQHQT	EMIITKQGRRMFPFLSFTVAGLEPT				
		::					
<u>SEQ ID NO:4</u>	MOUSE	PREDYALPAGLEVSGKLRVALSNHLLWSKFNQHQT	EMIITKQGRRMFPFLSFTVAGLEPT				
		120	130	140	150	160	170
	CONS	PREDYALPAGLEVSGKLRVAL	NHLLWSKFNQHQT	EMIITKQGRRMFPFLSFTVAGLEPT			

[illegible]

		250	260	270	280	290	300
<u>SEQ ID NO:2</u>	HUMAN	KLKLTNNKGASNNVTQMIVLQSLHKYQPR	LHIVEVNDGEPEAACNASNTH	FTT	Q	ET	QFI
		::					
<u>SEQ ID NO:4</u>	MOUSE	KLKLTNNKGASNNVTQMIVLQSLHKYQPR	LHIVEVNDGEPEAAC	SASNTHV	FTT	Q	ETQFI
		240	250	260	270	280	290
	CONS	KLKLTNNKGASNNVTQMIVLQSLHKYQPR	LHIVEVNDGEPEAAC	ASNTH	FTT	Q	ETQFI

Fig. 1A

Inventor: Laurie H. GLIMCHER et al.

Title: T-BET COMPOSITION AND METHODS OF USE THEREOF
ANNOTATED SHEET

SEQ ID NO:2

SEQ ID NO:4

310 320 330 340 350 360
HUMAN AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSIPSPPGPNCQFLGGDHYSPLLP
 ::
MOUSE AVTAYQNAEITQLKIDNNPFAKGFRENFESMYASVDTSVPSPPGPNCQLLGGDPFSPLLS
 300 310 320 330 340 350

CONS AVTAYQNAEITQLKIDNNPFAKGFRENFESMY SVDTS PSPPGPNCQ LGGD FSPLL

SEQ ID NO:2

SEQ ID NO:4

[illegible]

CONS NQYPVPSRFYPLPGQ KD Q YWLG PR HSYEAEFRAVSMKP LPSAPGPT YY

SEQ ID NO:2

SEQ ID NO: 4

```

          430           440           450           460           470           480
HUMAN  RGQEVLPAGAGWPVAPQYPPKMGPASWFRPMRTLPMEPGPGGSEGRGPEDQGPPPLVWTEI
      .....
MOUSE  RGQDVLAPGAGWPVAPQYPPKMSPAGWFRPMRTLPMDPGLGSSEEQG----SSPSLWPEV
       420         430         440         450         460         470

```

CONS RGQ VLAPGAGWPVAPQYPPKM PA WFRPMRTLPM PG G SE G P W E

SEO ID NO:2

SEQ ID NO:4

HUMAN 490 500 510 520 530
APIRPESSDGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEAEGQFYNTFPN
. . . :
MOUSE TSLOPEPSDGLGEGDTKRRRISYPYPSSGDSSSPAGAPSPFDKETEGQFYN**F**PN
 480 490 ↑↑↑↑ 500 510 520 530

CONS PE SDSGLGED KRRR SPYPSSGDSSSPAGAPSPFDKE EGQFYNYFPN

Fig. 1B ~~Fig. 1A (continued)~~

SEQ ID NO:1	HUMAN	10	20	30	40	50	60
		ATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGG					
SEQ ID NO:3	MOUSE	ATGGGCATCGTGGAGCCGGGCTGCGGAGACATGCTGACCGGCACCGAGCCGATGCC---G					
		10	20	30	40	50	
SEQ ID NO:1	HUMAN	70	80	90	100	110	120
		AGCGACGAGGGCCGGGCGCCTGGCGCCGACCCGACGACCGCTACTTCTACCCGGAGCCG					
SEQ ID NO:3	MOUSE	AGTGACGAGGGCCGGGGGCCCGGAGCGGACCAACAGCATCGTTTCTTCTATCCCGAGCCG					
		60	70	80	90	100	110
SEQ ID NO:1	HUMAN	130	140	150	160	170	180
		GGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGGGTCTCCCTACCCGGGG					
SEQ ID NO:3	MOUSE	GGCGCACAGGACCCGACCGATCGCCGCGCAGGTAGCAGCCTGGGGACGCCCTACTCTGGG					
		120	130	140	150	160	170
SEQ ID NO:1	HUMAN	190	200	210	220	230	240
		GGCGCCTTGGTGCCCGCCCCGCGGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGCGA					
SEQ ID NO:3	MOUSE	GCGCCCTGGTGCCCTGCCGCGCCGGGTCGCTTCCTTGGATCCTTCGCCTACCCGCCCGG					
		180	190	200	210	220	230
SEQ ID NO:1	HUMAN	250	260	270	280	290	300
		CCCCAGGCGGCCGGCTTCCCCGGCGCGGGCGAGTCCTTCCCGCCGCCCGCGGACGCCGAG					
SEQ ID NO:3	MOUSE	GCTCAGGTGGCTGGCTTCCCCGGGCTGGCGAGTTCTTCCCGCCGCCCGGGGTGCGGAG					
		240	250	260	270	280	290
SEQ ID NO:1	HUMAN	310	320	330	340	350	360
		GGCTACCAGCCGGGCGAGGGCTACGCCGCCCCGGACCCGCGCGCCGGGCTCTACCCGGGG					
SEQ ID NO:3	MOUSE	GGCTACCCGCCCGTGATGGCTACCCTGCCCTGACCCGCGCGCGGGGCTCTACCCAGGG					
		300	310	320	330	340	350
SEQ ID NO:1	HUMAN	370	380	390	400	410	420
		CCGCGTGAGGACTACGCGCTACCCGCGGGACTGGAGGTGTCGGGGAAACTGAGGGTCGCG					
SEQ ID NO:3	MOUSE	CCGCGCGAGGACTACGCATTGCCCGGGGTTGGAGGTGTCGGGAAGCTGAGAGTCGCG					
		360	370	380	390	400	410

Fig. 1C Fig. 1B

<u>SEQ ID NO:1</u>	HUMAN	CTCAACAACCACTGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACC
		430 440 450 460 470 480
<u>SEQ ID NO:3</u>	MOUSE	CTCAGCAACCACTGTTGTGGTCCAAGTTCAACCAGCACCAGACAGAGATGATCATCACT
		420 430 440 450 460 470
<u>SEQ ID NO:1</u>	HUMAN	AAGCAGGGACGGCGGATGTTCCCATTCCTGTCAATTTACTGTGGCCGGGCTGGAGCCCACC
		490 500 510 520 530 540
<u>SEQ ID NO:3</u>	MOUSE	AAGCAAGGACGGCGAATGTTCCCATTCCTGTCTTCACCGTGGCCGGGCTGGAGCCCACA
		480 490 500 510 520 530
<u>SEQ ID NO:1</u>	HUMAN	AGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCAGTGGCGGTACCAG
		550 560 570 580 590 600
<u>SEQ ID NO:3</u>	MOUSE	AGCCATTACAGGATGTTTGTGGATGTGGTCTTGGTGGACCAGCACCAGTGGCGGTACCAG
		540 550 560 570 580 590
<u>SEQ ID NO:1</u>	HUMAN	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGTAC
		610 620 630 640 650 660
<u>SEQ ID NO:3</u>	MOUSE	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCAGAAGGCAGCATGCCAGGGAACCGCTTATAT
		600 610 620 630 640 650
<u>SEQ ID NO:1</u>	HUMAN	GTCCACCCGGA CTCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATT TGGG
		670 680 690 700 710 720
<u>SEQ ID NO:3</u>	MOUSE	GTCCACCCAGACTCCCCAACACCGGAGCCCACTGGATGCGCCAGGAAGTTTCATT TGGG
		660 670 680 690 700 710
<u>SEQ ID NO:1</u>	HUMAN	AAACTAAAGCTCACAAACAACAAGGGGGCGTCCAACAATGTGACCCAGATGATTGTGCTC
		730 740 750 760 770 780
<u>SEQ ID NO:3</u>	MOUSE	AAGCTAAAGCTCACCAACAACAAGGGGGCTTCCAACAATGTGACCCAGATGATCGTCCTG
		720 730 740 750 760 770
<u>SEQ ID NO:1</u>	HUMAN	CAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCCA
		790 800 810 820 830 840
<u>SEQ ID NO:3</u>	MOUSE	CAGTCTCTCCACAAGTACCAGCCCCGGCTGCACATCGTGGAGGTGAATGATGGAGAGCCA
		780 790 800 810 820 830

Fig. 1D ~~Fig. 1B~~ (continued)

SEQ ID NO:1

SEQ ID NO: 3

SEQ ID NO:1

SEO ID NO:3

SEQ ID NO:1

SEQ ID NO:3

SEQ ID NO:1

SEQ ID NO:3

SEQ ID NO:1

SEQ ID NO:3

SEQ ID NO:1

SEQ ID NO:3

SEQ ID NO:1

SEQ ID NO:3

Fig. 1E ~~Fig. 1B (continued)~~

<u>SEQ ID NO:1</u>	HUMAN	CGAGGCCAGGAGGTCTTGGCACCTGGAGCTGGCTGGCCTGTGGCCACCCCAGTACCCCTCCC
		:: :::: :: :::::: :::::::::: :::::::::: :::: :::: :: :: :::: :::
<u>SEQ ID NO:3</u>	MOUSE	CGGGGCCAAGACGTCTTGGCGCCTGGAGCTGGTTGGCCCCGTGGCCCCTCAATACCCGCC
		1260 1270 1280 1290 1300 1310

<u>SEQ ID NO:1</u>		1330	1340	1350	1360	1370	1380
	HUMAN	AAGATGGGCCCGCCAGCTGGTTCGCCCTATGCGGACTCTGCCCATGGAACCCGGCCCT					
<u>SEQ ID NO:3</u>		1320	1330	1340	1350	1360	1370
	MOUSE	AAGATGAGCCCAGCTGGCTGGTTCGGCCCATGCGAACTCTGCCCATGGACCCGGGCCTG					

		1390	1400	1410	1420	1430	1440
<u>SEQ ID NO:1</u>	HUMAN	GGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGACTGAGATT					
		::: ::::: :: ::: :			::::: : ::::: ::::: :		
<u>SEQ ID NO:3</u>	MOUSE	GGATCCTCAGAGGAACAGGGCTCCT-----CCCCCTCGCTGTGGCCTGAGGTC					
		1380	1390	1400	1410	1420	

<u>SEQ ID NO:1</u>		1450	1460	1470	1480	1490	1500
	HUMAN	GCCCCATCCGGCCGAATCCAGTGATTCAGGACTGGCGAAGGAGACTCTAAGAGGAGG					
		:: :: ::	:: :: ::	:: :: ::	:: :: ::	:: :: ::	:: :: ::
<u>SEQ ID NO:3</u>	MOUSE	ACCTCCCTCCAGCCGAGCCCAGCGACTCAGGACTAGGCGAAGGAGACACTAAGAGGAGG					
		1430	1440	1450	1460	1470	1480

		1510	1520	1530	1540	1550	1560
<u>SEQ ID NO:1</u>	HUMAN	CGCGTGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCCCTGCTGGGGCCCCTTCTCCT					
		:	:	:	:	:	:
<u>SEQ ID NO:3</u>	MOUSE	AGGATATCCCCCTATCCTTCCAGTGGCGACAGCTCCTCTCCCGCTGGGGCCCCTTCTCCT					
		1490	1500	1510	1520	1530	1540

		1570	1580	1590	1600
<u>SEQ ID NO:1</u>	HUMAN	TTTGATAAGGAAGCTGAAGGACAGTTT	TATAACTATTTTCCCAACTGA		
		::::::::::::	: :::::	::::::::::::	::::::::::::
<u>SEQ ID NO:3</u>	MOUSE	TTTGATAAGGAAACCGAAGGCCAGTTT	TATAATTATTTTCCCAACTGA		
		1550	1560	1570	1580
				1590	

~~Fig. 1F Fig. 1B (continued)~~